

ABSTRACT OF THE DISCLOSURE

A composite structure comprising a core portion having a pair of generally opposed surfaces. A first fibrous layer is disposed on a first surface of the core portion and has a plurality of fibres disposed substantially parallel to the first surface. A second fibrous layer disposed on a second surface of the core portion and has a plurality of fibres disposed substantially parallel to the second surface. A first polymer layer is disposed over the first fibrous layer and a second polymer layer is disposed over the second fibrous layer. The first fibrous layer is partially embedded in both the core portion and the first polymer layer. The second fibrous layer is partially embedded in the core portion and the second polymer layer. The present composite structure may be used in structural and/or non-resilient components of the vehicle. Such components include exterior body panels (e.g., TONNEAU covers), door panels, beds for pickup trucks and the like. A process for producing the present composite structure is also described.